

Recovery Plan Action Status

Plan Name: Recovery Plan for Insect and Plant Taxa from the Santa Cruz Mountains in California

Plan Status: Final

Plan Date: 28-Sep-98

Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office

(805)
644-1766)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana)	2	1.1.1.1	Develop HCP for Quail Hollow Quarry	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	Santa Cruz County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	
Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana)	2	1.1.1.2	Develop HCP for Kaiser Felton Plant	Complete	FY 1995 - FY 1999	FY 1995 - FY 1999	Santa Cruz County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Work type not yet selected	Labor type not yet selected	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphyla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	2	1.1.4	Establish conservation easements on other sites not covered by HCPs	Not Started	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement, Management, Other: Information and Education	Contract, Internal Administrative, Internal Technical Assistance	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	2	1.1.6	Secure & protect medium-priority sandhill parklands and northern maritime chaparral	Ongoing Current	FY 2000 - FY 2004		To be determined	Acquisition, Management, Other: Information and Education	Contract, Internal Administrative, Internal Technical Assistance	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphyla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	3	2.1.2	Reduce encroachment of woody taxa	Ongoing Current	FY 1995 - FY 1999		California Department of Fish and Game, California Department of Forestry and Fire Protection, Private landowners	Management: Habitat Maintenance and Manipulation, Other: Information and Education	Contract, Internal Technical Assistance, Volunteer	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	2	2.1.4	Reduce impacts from recreation	Ongoing Not Current	FY 1995 - FY 1999		California Department of Fish and Game, Private landowners	Management, Other: Information and Education, Research: Other Information	Contract, Internal Administrative, Internal Technical Assistance	

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Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ohlone tiger beetle (Cicindela ohlone)	3	2.1.5	Limit use of insecticides	Not Started			U.S. Department of Agriculture, California Department of Fish and Game, Private landowners	Management: Habitat Maintenance and Manipulation, Other: Information and Education	Graduate Student, Internal Technical Assistance, Species Expert	
Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Santa Cruz cypress (Cupressus abramsiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	3	2.1.6	Restore selected sites	Not Started			California Department of Fish and Game, Private landowners	Management: Habitat Maintenance and Manipulation, Other: Information and Education	Graduate Student, Internal Technical Assistance, Species Expert	
Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana)	3	2.2.2	Develop & implement plan for Quail Hollow Ranch County Park	Not Started			Santa Cruz County, California, California Department of Fish and Game	Management, Other: Information and Education, Research: Other Information	Graduate Student, Internal Technical Assistance, Species Expert	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	2	3.1	Conduct research on life histories	Ongoing Current	FY 1995 - FY 1999		University of California, Santa Cruz, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research	Contract, Graduate Student, Species Expert	

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Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ohlone tiger beetle (Cicindela ohlone)	2	3.2	Conduct distribution surveys for insectes	Ongoing Not Current	FY 1995 - FY 1999		University of California, Santa Cruz, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status, Research: Population Surveys	Contract, Graduate Student, Species Expert	
Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ohlone tiger beetle (Cicindela ohlone)	2	3.3	Conduct research on habitat requirements	Ongoing Current	FY 1995 - FY 1999		University of California, Santa Cruz, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Requirements	Contract, Graduate Student, Species Expert	Graduate student Tara Cornelisse is working on a Ph.D. dissertation studying habitat characteristics and conservation genetics of OTB.
Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana)	2	3.4	Conduct restoration trials	Ongoing Not Current	FY 1995 - FY 1999		University of California, Santa Cruz, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Requirements	Contract, Graduate Student, Species Expert	

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Ben Lomond wallflower (Erysimum teretifolium), Mount Hermon June beetle (Polyphylla barbata), Zayante band-winged grasshopper (Trimerotropis infantilis), Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana), Ohlone tiger beetle (Cicindela ohlone), Scotts Valley Polygonum (Polygonum hickmanii), Robust (incl. Scotts Valley) spineflower (Chorizanthe robusta (incl. vars. robusta and hartwegii))	2	4	Locate additional habitat/populations	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status, Research: Population Surveys	Contract, Graduate Student, Species Expert	

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